# F-16 CCMFD Backlight Retrofit Upgrade

"Common Color Multi-Function Display LED"

## 1980s - MFD

MFDs are used to display everything from radar to weapon stores to navigation information. MFDs are surrounded by a group of buttons known as OSBs, which allow the pilot to change the information displayed on the MFD or control the aircraft’s systems. First version F-16 MFDs displayed information only in monochrome black/green.

## 1990s - CMFD

The F-16 Color Multi-Function Display (CMFD) part number 8520900-920 NSN 1260-01-469-6512 is the first-generation color displays for the F-16 and implemented as part of F-16 Mid-Life Update program in the early 1990s. The CMFD used special military Liquid Crystal Display Glass which quickly became obsolete.

## 2000s - CCMFD

Honeywell introduced a new color MFD with a fluorescent backlight called CCMFD.

## 2010 and on - CCMFD-LED Upgrade

In 2010, Honeywell introduced the light-emitting diode (LED) backlight in the F-16 common color multi-function display (CCMFD). CCMFD with fluorescent backlight can be upgraded to the LED configuration during a shop visit.
The CCMFD standard lead time is 54 weeks

YOU HAVE OPTIONS

Repair

1. **Standard Repair**
   This option includes repair and calibration of CCMFD (either fluorescent or LED Backlight). Honeywell will provide fault analysis and repair of up to two SRUs. Any replacement of Shop Replacement Units (SRU) due to damage or catastrophic failure will be priced as over and above.

   This option also includes installation of pre-purchased LED Backlight Upgrade Kits listed in Upgrade 2.

Upgrade LCD + LED

2. **LCD replacement with LED Backlight**
   From time to time there will be a need to replace the LCD due to damage or failure. LCD replacement will require LED backlight upgrade as the latest generation of LCDs are only qualified with the LED backlight. The LCD replacement is therefore offered as a complete solution with new A2 assembly. The LCD and LED Backlight upgrade is offered with both standard 1fL and enhanced 10fL NVIS configuration. Part number 8526500-921.

Upgrade to LED Backlight

3. **Upgrade of Fluorescent Backlight to LED Backlight**
   The CCMFD has undergone obsolescence and technology refreshes over the last 20 years, most importantly introduction of LED Backlight in the production configuration in 2009. The upgrade to LED backlight is being offered as standalone or in combination with a standard repair for the same price. For the repair portion the conditions stated under Repair 1 Standard Repair applies. The LED Backlight upgrade is offered with both standard 1fL and enhanced 10fL NVIS configuration. Part number 8526500-921.

Upgrade 10X NVIS Luminance Increase Capability

4. **Upgrade of existing LED Backlight CCMFD 1fL to 10fL**
   Existing CCMFDs with LED Backlight with 1fL NVIS can be upgrade to 10 fL NVIS through minor firmware modification and backlight calibration.

Demo display can be made available for flight testing – contact us today!

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